

Claims

1. A hinge (3, 3') with a frame part (4, 204) and a door part (5), which door part exhibits a holding box (8, 8') for installation on a door (1) or equivalent and a hinge leaf (7, 207) capable of detachable attachment to the box, which box comprises a lateral recess (19) for the hinge leaf, and present in the box a receiving part (20, 20', 220) for the hinge leaf, **characterized in that** the box (8, 8') is capable of movement relative to the receiving part (20, 20', 220) through the external influence of an adjustment device (32, 232) in order to produce lateral adjustment of the box and the door in the plane of the door, perpendicular to the axis (A) of the hinge and in a spring-actuated snap element (39, 239) for the detachable attachment of the position of the hinge leaf (7, 207) in the receiving part.
2. A hinge as claimed in claim 1, in which the box (8, 8') and the receiving part (20, 20', 220) are designed in such a way, as to execute a rotating movement relative to one another about an axis parallel to the axis (A) of the hinge through actuation of the adjustment device (32, 232).
3. A hinge as claimed in claim 2, in which the adjustment device exhibits a screw (32) that is axially locked relative to the box (8, 8') and interacts with a nut part (28, 228), which, as the screw is rotated, produces the relative rotating movement by engagement with the receiving part (20, 20', 220).
4. A hinge as claimed in claims 2 or 3, in which the receiving part (20, 20', 220) exhibits projecting end journals (21, 22, 110) that are mounted in the box (8, 8') for the relative rotating movement.
5. A hinge as claimed in claim 4, in which the receiving part (20, 20', 220) exhibits opposing side

walls (26, 27) which define an interjacent channel (25) for the hinge leaf (7, 207), the outer surfaces of which side walls converge in a direction outwards from the axis of rotation of the receiving part.

- 5 6. A hinge in accordance with any of claims 1-5, in which the holding box (8, 8') is capable of moving adjustment relative to the receiving part (20, 20') in a direction parallel to the axis (A) of the hinge, in order to permit vertical adjustment of the door (1).
- 10 7. A hinge as claimed in claim 5, with a vertical adjustment device in the form of an eccentric element (44) capable of actuation from outside, and rotatably mounted in the box (8) perpendicularly to the axis (A) of the hinge, which eccentric element engages with a
15 portion (21a) of the receiving part (20).
8. A hinge as claimed in claim 6, with a vertical adjustment device comprising a nut element (100) rotatably mounted in the box (8'), capable of actuation from the outside, and locked in the axial direction
20 relative to the box in engagement with a threaded journal (110), which is supported against the hinge leaf (7), in conjunction with which, when the nut element is rotated on the journal, the vertical movement of the element is transferred to the box.
- 25 9. A hinge as claimed in claim 8, in which the journal (110) is capable of movement relative to the receiving part (20') in a direction parallel to the axis (A) of the hinge.
- 30 10. A hinge as claimed in claims 8 or 9, in which the journal (110) exhibits a flange (113) supported against the hinge leaf (7), which flange is accommodated and guided in a channel (111) provided for that purpose in the receiving part (20').
- 35 11. A hinge as claimed in claim 10, in which the engagement of the flange (113) with the hinge leaf (7)

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is such that, when vertical adjustment of the door (1) in an upwards direction takes place through the actuation of an upper hinge nut element, a lower flanged hinge journal (110) accompanies the movement imparted to the door.

12. A hinge as claimed in one or other of claims 1-5, in which the hinge leaf (207) is movably adjustable relative to the frame part (204) in a direction parallel to the axis of the hinge in order to permit the vertical adjustment of the door.

13. A hinge as claimed in claim 12, in which the frame part (204) comprises a vertical adjustment device (270) that is capable of axial displacement in a frame knuckle (210b), by means of interacting threads, and a hinge pin (206) that is capable of displacement by the vertical adjustment device in an axial direction together with means (260) for transferring an axial movement imparted to the hinge pin to the hinge leaf (207).

14. A hinge as claimed in one or other of the preceding claims, in which the receiving part (20, 20', 220) exhibits a laterally projecting and preferably closable sleeve part (35) which accommodates the hinge leaf (7, 207) locking, spring-actuated snap-in element (39, 239), for the detachable securing of the leaf (7) in the receiving part (20, 20').

15. A hinge as claimed in claim 14, in which the holding box (8, 8') exhibits a corresponding, laterally projecting sleeve part (43) of larger dimensions in order to permit relative movement between the sleeve parts (35, 43) of the receiving part (20, 20', 220) and of the box (8, 8').